



## 2011 - SR 303 Manette Bridge

### Description

### Meta Fields





## Project Summary :

Precast cofferdams/shaft cap shells were used at the waterline of this bridge to provide a dry work zone to construct the remainder of the shaft cap and columns.

## Project Location :

Kitsap County

**Mobility Impact Time :** The existing truss bridge was open to traffic during construction and closed after the new bridge was opened.

**Impact Category :** Tier 1 (within 1 day)

**Dimensions :** Seven-span precast, post-tensioned concrete variable depth I-girder with CIP deck. One 160-ft span, five 250-ft spans and one 140-ft span. 32-ft roadway width and 12-ft sidewalk.

**Average Daily Traffic At Time Of Construction :** 6500

## Traffic Management :

The new bridge was constructed adjacent to existing bridge w/o significant impact

## Existing Bridge Description :

Thirteen spans (one-span steel through-truss, three-span steel deck-truss, eight-span steel girder), approximately 1,570 ft in length

**Replacement Or New Bridge :** This replacement bridge was constructed over the Port Washington Narrows waterway. The bridge's foundation was drilled shafts, utilizing precast caisson cap to construct the concrete column to shaft connection. The multi-column piers were CIP. The contract provided precast and CIP options for the crossbeams; CIP was chosen. The superstructure consisted of precast post-tensioned concrete I-girders. Girder segments were either supported by temporary shoring tower, pier or strongback prior to post-tensioning and CIP concrete deck placement.

**Construction Method :** The drilled shafts were constructed with permanent casing which extended above the waterline. A support was attached to the outside of the steel casing below water to support the precast caisson cap. The precast caisson cap was lowered onto the casing support and sealed for water tightness. After pumped dry, reinforcement for the cap and columns was placed and concrete was placed to continue the pier construction.

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**Other Related Url :** 2

**Year Abc Built :** 2011

**State :** WA

**Owner :** State

**Location :** Urban

**Spans :** > Three-span

**Beam Material :** Concrete

**Max Span Length Ft :** 250

**Total Bridge Length Ft :** 1550

**Construction Equipment :** Other ABC Method

**State Id # :** 303/4A

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**Latitude :** 47.5693016

